



Online UPS

3:3 Phase

FPHI Series

20~80KVA
3:3 Phase

Application:

Small-medium internet data center, telecom and other mission-critical applications

Features:

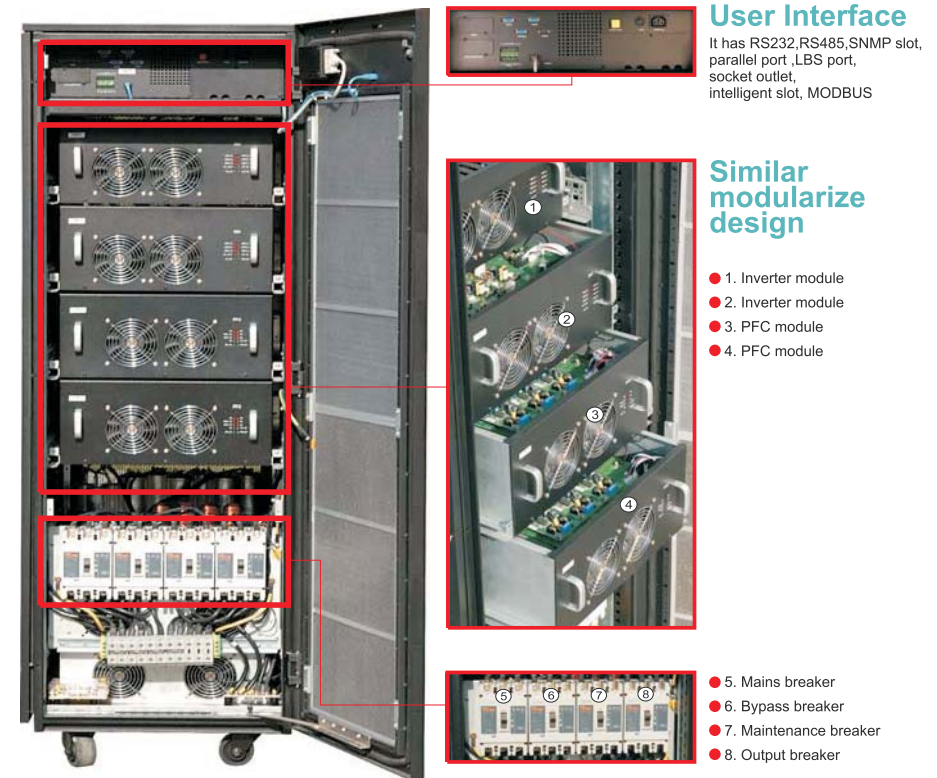
1. New generation of online double conversion digital UPS
2. Advanced IGBT rectifier to have low THDi and high PF
3. Wide input voltage range and frequency tolerance
4. Load bus synchronization (LBS) function to protect your investment
5. Flexibility of configurable battery quantity
6. Front accessible module design for ease of maintenance
7. Low audible noise: <56dB
8. Low output voltage THD
9. Parallel redundancy
10. ECO mode
11. Back-feed protection
12. Cold start
13. Provide LCD indication and audible alarm function
14. Surge, short circuit and overload protection
15. Intelligent battery management



60/80K

20/30/40K

Structure



User Interface

It has RS232, RS485, SNMP slot, parallel port, LBS port, socket outlet, intelligent slot, MODBUS

Similar modularize design

- 1. Inverter module
- 2. Inverter module
- 3. PFC module
- 4. PFC module

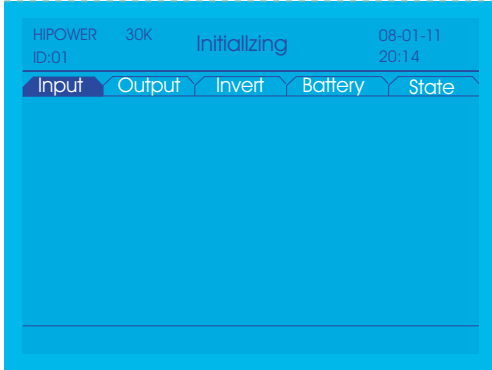
- 5. Mains breaker
- 6. Bypass breaker
- 7. Maintenance breaker
- 8. Output breaker



LCD with rich function

Can revolve the LCD
Can also disassemble the LCD ,
communicate with the system by
Rs485 to realize remote control.

EPO



Large capability of history records storage

Can store 4000 history records
It has input, output, inverter, battery,
state, parallel, command, setting,
records and ver views.



Intelligent battery management

Can select the battery
number(32/34/36/38/40 pcs)



Redundancy parallel x 4

Parallel redundancy mode (system expansion)
For higher capacity or higher reliability or both,
the outputs of up to four UPS modules can
programmed for directly paralleling while a built-
in parallel controller in each UPS ensures
automatic load sharing.

Model		FPHI20	FPHI30	FPHI40	FPHI60	FPHI80
Capacity		20KVA	30KVA	40KVA	60KVA	80KVA
maximum Input current		40A	63A	80A	125A	160A
Rated voltage		380/400/415V				
Voltage Range		Po≤69%:208±5 VAC~478±5VAC Po≥69%:304±5VAC~478±5VAC				
Frequency range		40±0.5Hz~70±0.5Hz				
Phase		3 phase 4 wire (3ph+N)				
Power Factor		> 0.99				
THDi		Input THD ≤ 1.0%, Linear Load: ≤ 3.0% Input THD ≤ 1.0%, non-linear Load: ≤ 7.0%				
Rated voltage		380/410/415V				
Output current (Full load) 380V		24A	36A	48A	72A	96A
Output current (Full load) 400V		23A	35A	46A	70A	94A
Output current (Full load) 415V		22A	33A	44A	66A	88A
Waveform		Sine wave				
Crest Factor		≥ 3:1				
Frequency		50Hz/60Hz ±0.5Hz (Battery mode) 50/60 (1±1/2/4/5%) Hz (On-Line)				
THD		non-linear Load: ≤ 4.5% 3 phase 4 wire (3ph+N)				
Phase		Linear Load: ≤ 2.0%				
Rated Power factor		0.8				
DC component		≤ 500mVDC				
Voltage precision		Output balanceable: ± 1.0% Output non-balanceable: ± 3.0%				
Overload Capability		110% for 60mins; 125% for 10min; 150% for 1min				
Voltage Range		380V:208/226/304±5VAC~399/418/437/475±5VAC 400V:220/280/320±5VAC~420/440/460±5VAC 415V:228/290/332±5VAC~436/457/477±5VAC				
Frequency Range		50(1±10%)Hz / 60 (1±10%) Hz				
Phase		3phase 4 wire (3ph+N)				
Overload capability		125%-127% for 10min				
Voltage Range		380V:304±5VAC~399/418±5VAC 400V:320±5VAC~420/440±5VAC 415V:332±5VAC~436/457±5VAC				
Frequency Range		50(1±10%)Hz / 60 (1±10%) Hz				
Phase		3phase 4 wire (3ph+N)				
Model		Sealed Lead Acid Battery(VRLA)				
Configurable battery		32/34/36/38/40cs				
Discharge current (320Vdc)		54A	81A	106A	160A	213A
Charge current (max)		15A			30A	
Efficiency (Line mode)		≥ 90%			≥ 90%	
Efficiency (Battery mode)		≥ 93%			≥ 94%	
Efficiency (ECO)					≥ 97%	
Wasting (Line mode)					≤ 3%	
Wasting (ECO)					≤ 2%	
Noise at 1m					< 56dB	
Running temperature					0~40℃	
Relative Humidity					0%RH~95%RH(non-condensing)	
Altitude					1000m output normal power	
Display					LCD+LED	
Breaker/fuse		40A	63A	80A	125A	160A
Remote signaling		Dry contact				
Communication		RS232/RS485/SNMP				
Dimension(WxDxH)mm		600x730x1200			600x730x1800	
Packing (WxDxH)mm		735x845x1390				
Net Weight(kg)		186	192	203	280	289
Gross Weight(kg)		226	232	243	328	357